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What is claimed is:

- An apparatus for manufacturing an optical fiber soot comprising a core partition provided on a periphery of a core burner, in a reactor of the apparatus to be used in a VAD method.
- The apparatus according to claim 1, wherein said core partition has an opening portion at a core burner
 side.
- 3. The apparatus according to claim 1, wherein said core partition at least has a height that is same as a position of a core burner nozzle, the core partition has a cylindrical shape having a diameter not less than the diameter of a porous soot, the core partition is provided below the porous soot, and a bottom of the core partition contacts a bottom surface of said reactor.
- 4. The apparatus according to claim 1, wherein the width of the opening portion of the core partition is smaller than the width of the core partition itself.
- 5. The apparatus according to claim 1, wherein the width d of the opening portion of said core partition has

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a value satisfying: 0.5W(D) < d < 0.8W(D) to the width W or the diameter D of said core partition.

- 6. The apparatus according to claim 1, wherein the width d of the opening portion of said core partition is changable.
- 7. The apparatus according to claim 1, wherein the width d of the opening portion of said core partition is about ten times the bore width b of the aperture of the core burner.
 - 8. The apparatus according to claim 1, wherein said core partition rectifies the airflow in said reactor.
- 9. A method for manufacturing an optical fiber soot, comprising using an apparatus for manufacturing an optical fiber soot, wherein, in the apparatus, a core partition is provided on a periphery of a core burner, in a reactor of said apparatus to be used in a VAD method.
 - 10. The method according to claim 9, wherein said core partition has an opening portion at said core burner side.